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(54) Title: THERAPEUTICALLY USEFUL MOLECULES

Human TCR V α -1.5 (V α -8.2) coding sequence

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ATGCTCCTGC TGCTCGTCCC AGTGCTCGAG GTGATTTTA CTCTGGGAGG
AACAGAGGCC CAGTCGGTGA CCCAGCTTGAG CAGCCACGTC TCTGTCTCTG
AAGGAACCCC GGTGCTGCTG AGGTGCAACT ACTCATCTTC TTATTACCCA
TCTCTCTTCT GGATGTGCA ACACCCCCAAC AAAGGACTCC AGCTTCTCCT
GAAGTACACA TCAGCGGCCA CCCTGGTTAA AGGCATCAAC GGTTTGAGG
CTGAATTAA GAAGAGTGAAC ACCTCGCTTC ACCTGACGAA ACCCTCAGCC
CATATGAGCG ACAGCGGCTGA GTACTCTGT GTTGTGAGTC CTTTTCAAGG
AGGAGGTGCT GACGGACTCA CCTTGGCAA AGGGACTCAT CTAATCATCC
AGCCCTATAT CCAGAACCCCT GACCCTGCCG TGTACCAGCT GAGAGACTCT
AAATCCAGTG ACAAGTCTGT CTGCCTATTCC ACCGATTGG ATTCTCAAAC
AAATGTGTC ACAAAGTAAGG ATTCTGATGT GTATATCACAGACAAAAGTG
TGCTAGACAT GAGGTCTATG GACTTCAAGA GCAACAGTGC TGTGGCCTGG
AGCAACAAAT CTGACTTTGC ATGTGCAAAC GCCTTCAACA ACAGCATTAT
TCCAGAAGAC ACCTTCTTCC CCAGCCCCAGA AAGTCTCTGT GATGTCAAGC
TGGTCGAGAA AAGCTTGAA ACAGATACGA ACCTAAACTT TCAAAACCTG
TCAGTGATTG GGTTCCGAAT CCTCCTCCCTG AAAGTGGCCG GGTTTAATCT
GCTCATGACG CTGCGGCTGT GGTCCAGCTGA
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(57) Abstract: A T cell receptor molecule (TCR) containing an alpha chain portion and a beta chain portion wherein the alpha chain portion contains three complementarity determining regions (CDRs): CDR1 α : SSYSPLS CDR2 α : YTSAATL CDR3 α : VVSPF-SGGGADGLT or comprising or consisting of SPFSGGGADGLT and the beta chain portion contains three complementarity determining regions (CDRs): CDR1 β : DFQATT CDR2 β : SNEGSKA CDR3 β : comprising SARDGGEG or comprising or consisting of RDGGEGSETQY, or wherein up to three amino acid residues in one or more CDRs are replaced by another amino acid residue. The invention also includes polynucleotides encoding the TCR molecules, and host cells containing the said polynucleotides. Patient derived T cells may have the polynucleotides encoding the TCR molecules introduced therein, and the engineered T cells may be introduced into the patient in order to combat a WT1-expressing malignancy.

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SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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